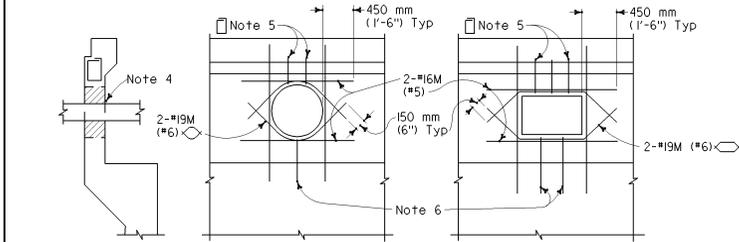
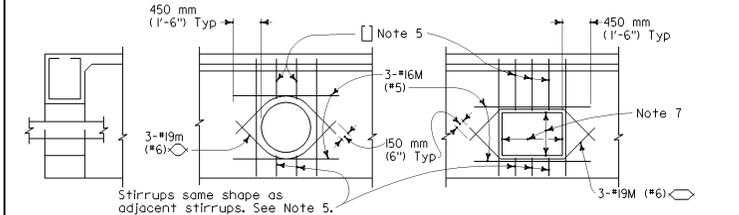


DETAIL U-11

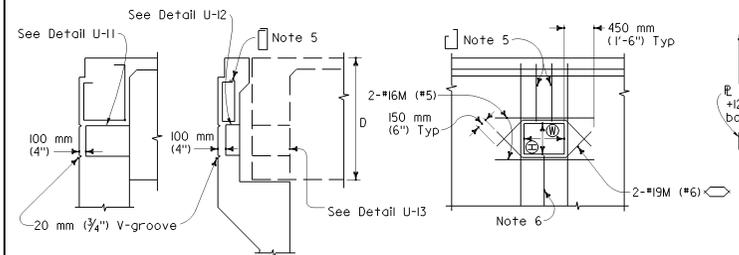
**DETAIL U-15
INTERMEDIATE DIAPHRAGMS**



DETAIL U-12

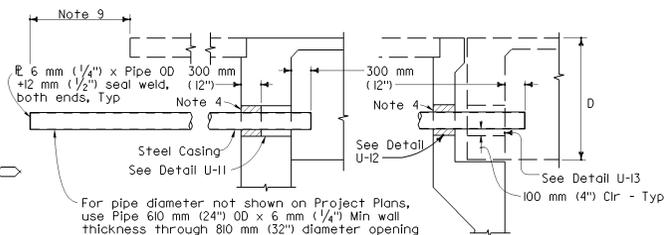


DETAIL U-13

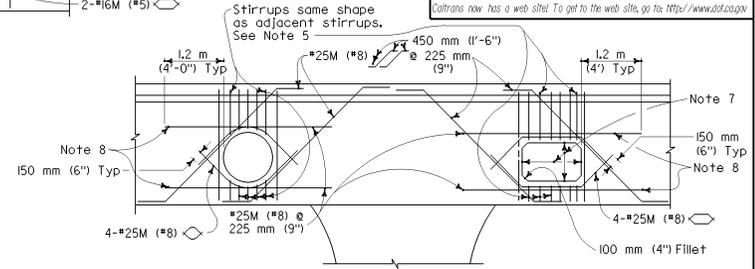


**DETAIL U-14
ABUTMENT DIAPHRAGMS**
(For future utility opening)

For future utility opening dimensions not shown on Project Plans, use:
 (H) = $\frac{1}{3}$ D or 375 mm (15") minimum, whichever is greater.
 (W) = $\frac{1}{3}$ D or 375 mm (15") minimum, whichever is greater.



**DETAIL U-16
ABUTMENT DIAPHRAGMS**
(For future utility provisions under approach slab)



**DETAIL U-17
BENT CAPS**

Near or between columns

NOTES:

- The exact location, elevation, size and direction of openings shall be in accordance with the Project Plans and as directed by the Engineer.
- Girders not shown. See Project Plans.
- All reinforcement details to be placed in addition to reinforcement shown on Project Plans.
- Seal utilities at abutments with concrete or mortar, after tightly wrapping utility with 2 layers of 7 kg (15 lbs) building paper.
- Reinforcement to be same bar size, and $\frac{2}{3}$ the spacing of adjacent reinforcement shown on Project Plans.
- Reinforcement to be same bar size and shape as adjacent reinforcement shown on Project Plans.
- For future utility opening dimensions, See Project Plans and Detail U-14.
- When there is insufficient space to place reinforcement as shown, hook reinforcement into exterior girder.
- Unless otherwise shown on Project Plans, casing shall extend to the greater of 1.5 m (5') beyond the end of the approach slab, 1.5 m (5') beyond the end of the adjacent wingwall 6 m (20') beyond the back of the abutment.

STATE OF CALIFORNIA
 DEPARTMENT OF TRANSPORTATION
**UTILITY OPENINGS
 T-BEAM**

These "Standard Plans for Construction of Local Streets and Roads" contain units in two systems of measurement: International System of Units (SI or "metric") and United States Standard Measures shown in the parentheses (). The measurements expressed in the two systems are not necessarily equal or interchangeable. See the "Foreword" at the beginning of this publication.

NO SCALE

| | | | | | |
|-------|--------|-------|------------------------------|----------|--------------------|
| DIST. | COUNTY | ROUTE | KILOMETER POST TOTAL PROJECT | POST NO. | SHEET TOTAL SHEETS |
| | | | | | |


 July 1, 2002
 PLANS APPROVAL DATE
 No. C-1119
 Exp. 9-30-05
 STATE OF CALIFORNIA

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